

WHAT IS CLAIMED IS:

1. A plasma display panel manufacturing method comprising:

5 forming a structure, wherein the forming of the structure includes forming a precursor layer containing at least one of a resin component and a solvent component on a substrate, and heat-treating the substrate on which the precursor layer has been formed; and

10 decomposing impurities included in exhaust gas generated in the heat treatment by action of a catalyst.

2. The plasma display panel manufacturing method according to claim 1, wherein the forming of the structure  
15 is forming an electrode.

3. The plasma display panel manufacturing method according to claim 1, wherein the forming of the structure is forming a dielectric layer.

20 4. The plasma display panel manufacturing method according to claim 1, wherein the forming of the structure is forming a partition wall.

5. The plasma display panel manufacturing method according to claim 1, wherein the forming of the structure is forming a phosphor layer.

5 6. The plasma display panel manufacturing method according to claim 1, wherein the forming of the structure is forming an outside light reflection prevention layer.

7. A heat treatment apparatus used in a heat treatment  
10 where a substrate on which a precursor layer including at least one of a resin component and a solvent component is formed, is heat-treated, the heat treatment apparatus comprising:

a catalyst unit including a catalyst disposed on an  
15 exhaust path where an exhaust gas generated in the heat treatment is discharged.

8. The heat treatment apparatus according to claim 7, wherein the catalyst includes a component selected from a  
20 group consisting of a platinum group, Fe-Cr-Al,  $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-MgO}$  and  $\text{r-Al}_2\text{O}_3$ .

9. The heat treatment apparatus according to claim 8, wherein the catalyst has a structure selected from a group

consisting of a metal honeycomb structure, a ceramic honeycomb structure and a pellet structure.

10. The heat treatment apparatus according to claim 7,  
5 wherein the heat treatment is a heat treatment, which is used in formation of one of an electrode, a partition wall, a phosphor layer, a dielectric layer and an outside light reflection prevention layer is/are, during manufacture of a plasma display panel.

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